

CRAB CREEK BASIN

12472600 CRAB CREEK NEAR BEVERLY, WA

LOCATION.--Lat 46°49'48", long 119°49'48", in NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.33, T.16 N., R.24 E., Grant County, Hydrologic Unit 17020015, on right bank 4.9 mi east of Beverly, and at mile 4.5.

DRAINAGE AREA.--4,842 mi², of which 665 mi² in the vicinity of Soap Lake is noncontributing.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--February 1959 to current year.

REVISED RECORDS.--WSP 1933: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 500 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except for estimated daily discharges and those below 120 ft³/s, which are poor. Records for May 5 to June 12 are missing due to vandalism and discharge could not be estimated. Many diversions upstream from station for irrigation. Flow largely regulated by Potholes Reservoir 41.3 mi upstream. A major portion of flow is return flows, including transbasin diversions, from parts of the Columbia Basin project. Chemical analyses water years 1959-72, 1975-76, 1978, 1980, 2002-2005. Daily water temperatures August 1959 to September 1962, July 1968 to August 1970.

AVERAGE DISCHARGE.--44 years (water years 1960-99, 2001-04), 201 ft³/s, 145,400 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 936 ft³/s, Mar. 3, 1980, gage height, 6.46 ft; minimum discharge, 10 ft³/s, Jan. 10, 1963, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Maximum discharge recorded, 347 ft³/s, Oct. 22, gage height, 3.84 ft; minimum discharge recorded, 79 ft³/s, June 26.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	271	227	168	181	260	145	224	123	---	193	105	252
2	265	214	165	182	251	156	222	120	---	156	119	248
3	285	213	145	177	230	156	225	122	---	145	130	247
4	296	205	150	173	213	172	219	116	---	148	138	239
5	314	200	160	e150	204	172	228	---	---	159	152	254
6	315	187	155	e140	205	169	238	---	---	157	150	260
7	297	184	159	e140	199	162	226	---	---	152	151	263
8	295	189	163	e150	195	154	221	---	---	153	152	272
9	305	194	158	164	191	147	229	---	---	163	145	278
10	307	188	159	166	191	146	228	---	---	183	153	255
11	304	187	164	165	194	147	219	---	---	189	154	265
12	298	184	164	167	197	146	236	---	---	164	145	296
13	293	177	164	170	197	148	253	---	140	179	149	294
14	296	174	165	165	189	141	255	---	141	183	179	295
15	297	173	165	158	179	138	250	---	145	151	177	300
16	240	174	159	154	172	138	247	---	152	142	166	288
17	233	172	158	150	166	128	261	---	153	139	185	269
18	269	171	157	155	163	123	266	---	152	141	224	264
19	294	171	154	160	160	116	259	---	157	158	243	265
20	323	154	161	168	159	122	245	---	154	146	243	270
21	340	158	148	175	159	103	234	---	165	120	244	273
22	346	163	152	186	158	96	226	---	159	110	248	276
23	342	166	156	197	156	104	209	---	138	119	233	267
24	338	176	159	203	158	104	196	---	109	131	237	248
25	326	178	161	203	157	106	208	---	94	145	253	223
26	319	176	163	204	154	114	199	---	87	156	231	247
27	319	175	165	205	153	140	180	---	87	142	218	256
28	310	175	166	203	151	177	163	---	123	134	215	255
29	281	166	172	205	---	220	152	---	173	127	221	253
30	255	170	179	200	---	229	130	---	193	104	243	250
31	239	---	181	203	---	232	---	---	---	105	263	---
TOTAL	9,212	5,441	4,995	5,419	5,161	4,551	6,648	---	---	4,594	5,866	7,922
MEAN	297	181	161	175	184	147	222	---	---	148	189	264
MAX	346	227	181	205	260	232	266	---	---	193	263	300
MIN	233	154	145	140	151	96	130	---	---	104	105	223
AC-FT	18,270	10,790	9,910	10,750	10,240	9,030	13,190	---	---	9,110	11,640	15,710

e Estimated

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WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1959-72, 1975-76, 1978, 1980, July 2002 to October 2004 (discontinued).

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: August 1959 to September 1962, July 1968 to August 1970, October 1995 to September 1996. Published as 12472500 "near Smyrna", 1959-62.

INSTRUMENTATION.--Temperature recorder from November 1994 to September 1996.

REMARKS.--Unpublished temperature data for portions of the 1994 and 1997 water year are available in the Spokane, WA, Field Office. Unpublished water-quality data for 1981 and 1993-96 are available at the USGS Washington Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--

WATER TEMPERATURE: Maximum 31.0°C, July 27-28, 1968; minimum 0.0°C, Nov. 15-16, Dec. 31, 1959, several days in January, February and December 1960, several days in January and December 1961, several days in January 1962, several days in December 1968, several days in January and February 1969, several days in Jananuary and February 1995, and several days in January and February 1996.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Station number	Time	Instantaneous discharge, cfs (00061)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	
OCT 05...	12472600	1310	315	10.6	8.3	543	24.8	15.0	190	39.6	22.0	7.24

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Sodium, percent (00932)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Carbonate, wat flt incrm. titr., field, mg/L (00452)	Chloride, wat flt incrm. titr., field, mg/L (00940)	Fluoride, wat flt incrm. titr., field, mg/L (00950)	Silica, wat flt incrm. titr., field, mg/L (00955)	Sulfate, wat flt incrm. titr., field, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Residue water, fltrd, tons/acre-ft (70303)	Residue water, fltrd, tons/d (70302)
OCT 05...	1	45.4	33	212	256	.0	13.8	.5	26.2	50.6	338	.47	295

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Residue on evap. at 180degC 180degC wat flt mg/L as N (70300)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd mg/L (00665)	Total nitrogen, water, unfltrd mg/L (00600)	Iron, water, unfltrd ug/L (01046)	Manganese, water, fltrd, ug/L (01056)	2,4,5-T surrog, water, fltrd, percent recovery (99958)	2,4-D methyl ester, water, fltrd, ug/L (50470)	2,4-D water, fltrd, ug/L (39732)	2,4-DB water, fltrd, 0.7u GF ug/L (38746)
OCT 05...	346	.35	.020	1.54	.016	.044	1.9	9	3.2	84.5	<.016	E.02	<.02

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	2,6-Diethyl-aniline water fltrd 0.7u GF ug/L (82660)	CIAT, water, fltrd, ug/L (04040)	CEAT, water, fltrd, ug/L (04038)	OIET, water, fltrd, ug/L (50355)	Hydroxy carb furan, wat flt 0.7u GF ug/L (49308)	3-Keto carb furan, wat fltrd, ug/L (50295)	Acetochlor, water, fltrd, ug/L (49260)	Acf-fluorfen, water, fltrd, ug/L (49315)	Alachlor, water, fltrd, ug/L (46342)	Aldi-sulfone, water, fltrd, ug/L (49313)	Aldi-carb sulfone, water, fltrd, ug/L (49314)	Aldi-carb sulfide, water, fltrd, ug/L (49312)	alpha-HCH, water, fltrd, ug/L (34253)
OCT 05...	<.006	E.010	<.08	<.032	<.008	<.02	<.006	<.028	<.005	<.02	<.022	<.04	<.005

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	alpha-HCH-d6, surrog, wat flt 0.7u GF ug/L as percent recovery (91065)	Azin-phos-methyl, water, fltrd, 0.7u GF ug/L (39632)	Barban, surrog, Sched. 2060/9060, wat fltrd, ug/L (82686)	Ben-flur-alin, water, fltrd, ug/L (50299)	Benomyl, water, fltrd, ug/L (82673)	Bensulfuron, water, fltrd, ug/L (50300)	Benzazon, water, fltrd, ug/L (61693)	Bentazon, water, fltrd, ug/L (38711)	Bromacil, water, fltrd, ug/L (04029)	Bromoxynil, water, fltrd, ug/L (49311)	Butylate, water, fltrd, ug/L (04028)	Caffeine, water, fltrd, ug/L (50305)	
OCT 05...	84.3	.018	<.050	80.9	<.02	<.010	<.022	<.02	E.04	<.02	<.03	<.004	<.018

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WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Caffeine-13C, surrog, wat fltrd percent recovery (99959)	Carbaryl, water, fltrd 0.7u GF ug/L (49310)	Carbaryl, water, fltrd 0.7u GF ug/L (82680)	Carbo-furan, water, fltrd 0.7u GF ug/L (49309)	Carbo-furan, water, fltrd 0.7u GF ug/L (82674)	Chloramben methyl ester, water, fltrd, ug/L (61188)	Chlorimuron, water, fltrd, ug/L (50306)	Chloro-diamino-s-triazine, water, fltrd, ug/L (04039)	Chlorothalonil, water, fltrd, ug/L (49306)	Chlorpyrifos water, fltrd, ug/L (38933)	cis-Permethrin water, fltrd, ug/L (82687)	Clopyralid, water, fltrd, ug/L (49305)	Cyanazine, water, fltrd, ug/L (04041)
OCT 05...	80.7	<.02	<.041	<.016	<.020	<.02	<.032	E.01	<.04	<.005	<.006	<.02	<.018

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Cycloate, water, fltrd, ug/L (04031)	Dacthal mono-acid, water, fltrd, 0.7u GF ug/L (49304)	Desulfuryl DCPA, water, fltrd, 0.7u GF ug/L (82682)	Diazenon-d10 Diazinon, water, fltrd, ug/L (62170)	Dicamba Diazinon-d10 surrog, wat fltrd, 0.7u GF percent recovery (39572)	Dichlorprop, water, fltrd, 0.7u GF ug/L (38442)	Dieldrin, water, fltrd, 0.7u GF ug/L (49302)	Dinoseb, water, fltrd, 0.7u GF ug/L (39381)	Diphenamid, water, fltrd, 0.7u GF ug/L (49301)	Disulfoton, water, fltrd, 0.7u GF ug/L (82677)	Diuron, water, fltrd, 0.7u GF ug/L (49300)		
OCT 05...	<.01	<.03	<.003	<.012	<.005	100	<.04	<.03	<.009	<.04	<.01	<.02	<.01

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	EPTC, water, fltrd 0.7u GF ug/L (82668)	Ethalflur-alin, water, fltrd 0.7u GF ug/L (82663)	Etho-prop, water, fltrd 0.7u GF ug/L (82672)	Desulfuryl Fenuron water, fltrd, 0.7u GF ug/L (49297)	Fipro-nil fipronil amide, wat flt ug/L (62169)	Fipro-nil sulfide water, fltrd, ug/L (62167)	Fipro-nil sulfone water, fltrd, ug/L (62168)	Fipro-nil water, fltrd, ug/L (62166)	Flumetsulam, water, fltrd, ug/L (61694)	Fluometuron water, fltrd, ug/L (38811)	Fonofos water, fltrd, ug/L (04095)	Imazquin, water, fltrd, ug/L (50356)	Imazethapyr, water, fltrd, ug/L (50407)
OCT 05...	<.004	<.009	<.005	<.02	<.029	<.013	<.024	<.016	<.04	<.02	<.003	<.04	<.04

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Imidacloprid water, fltrd, ug/L (61695)	Lindane water, fltrd, ug/L (39341)	Linuron water, fltrd, 0.7u GF ug/L (38478)	Linuron water, fltrd, 0.7u GF ug/L (82666)	Mala-thion, water, fltrd, ug/L (39532)	MCPA, water, fltrd, 0.7u GF ug/L (38482)	MCPB, water, fltrd, 0.7u GF ug/L (38487)	Metala-xyl, water, fltrd, ug/L (50359)	Methio-carb, water, fltrd, 0.7u GF ug/L (38501)	Meth-oxy, water, fltrd, 0.7u GF ug/L (49296)	Methyl para-thion, water, fltrd, 0.7u GF ug/L (82667)	Metola-chlor, water, fltrd, ug/L (39415)	Metribuzin, water, fltrd, ug/L (82630)
OCT 05...	<.020	<.004	<.01	<.035	<.027	<.03	<.01	<.01	<.010	<.020	<.015	<.006	<.006

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Metsulfuron, water, fltrd, ug/L (61697)	Moli-nate, water, fltrd, 0.7u GF ug/L (82671)	N-(4-Chlorophenyl)-N'-methylurea, water, fltrd, 0.7u GF ug/L (61692)	Napropamide, water, fltrd, 0.7u GF ug/L (82684)	Neburon water, fltrd, 0.7u GF ug/L (49294)	Nicosulfuron, water, fltrd, 0.7u GF ug/L (50364)	Norflurazon, water, fltrd, 0.7u GF ug/L (49293)	Oryzalin, water, fltrd, 0.7u GF ug/L (49292)	Oxamyl, water, fltrd, 0.7u GF ug/L (38866)	p,p'-DDE, water, fltrd, 0.7u GF ug/L (34653)	Parathion, water, fltrd, 0.7u GF ug/L (39542)	Pebulate, water, fltrd, 0.7u GF ug/L (82669)	Pendimethalin, water, fltrd, 0.7u GF ug/L (82683)
OCT 05...	<.03	<.003	<.04	<.007	<.01	<.04	<.02	<.01	<.03	<.003	<.010	<.004	<.022

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Phorate water fltrd, 0.7u GF ug/L (82664)	Picloram, water, fltrd, 0.7u GF ug/L (49291)	Prometon, water, fltrd, 0.7u GF ug/L (04037)	Propyzamide, water, fltrd, 0.7u GF ug/L (82676)	Propachlor, water, fltrd, 0.7u GF ug/L (04024)	Propanil, water, fltrd, 0.7u GF ug/L (82679)	Propar-gite, water, fltrd, 0.7u GF ug/L (82685)	Propham water, fltrd, 0.7u GF ug/L (49236)	Propiconazole, water, fltrd, 0.7u GF ug/L (50471)	Propoxur, water, fltrd, 0.7u GF ug/L (38538)	Siduron water, fltrd, 0.7u GF ug/L (38548)	Simazine, water, fltrd, 0.7u GF ug/L (04035)	Sulfor-muron, water, fltrd, 0.7u GF ug/L (50337)
OCT 05...	<.011	<.03	<.01	<.004	<.025	<.011	<.02	<.030	<.01	<.008	<.02	<.010	<.038

12472600 CRAB CREEK NEAR BEVERLY, WA—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Tebu-thiuron water fltrd 0.7u GF ug/L (82670)	Terba-cil, water, fltrd 0.7u GF ug/L (82665)	Terba-cil, water, fltrd, ug/L (04032)	Terbu-fos, water, fltrd 0.7u GF ug/L (82675)	Thio-bencarb water fltrd 0.7u GF ug/L (82681)	Tri-allate, water, fltrd 0.7u GF ug/L (82678)	Tri-clopyr, water, fltrd 0.7u GF ug/L (49235)	Tri-flur-alin, water, fltrd 0.7u GF ug/L (82661)
OCT 05...	<.02	<.034	<.016	<.02	<.010	<.006	<.03	<.009